

The U.S. Census Bureau's International Programs: Capacity Building, Analytical Products, and Tools for Evaluation

**U.S. Department of State
Fourth Annual Conference on Program Evaluation
June 7-8, 2011
George C. Marshall Center**

International Technical Assistance

Population Division
U.S. Census Bureau

What We Do

Promote international development and capacity building on a reimbursable basis through

- Technical assistance
- Training and statistical development
- Software and methodological tools development

Technical Assistance

- Helping to build statistical capacity through collaboration with counterparts and counterpart statistical agencies around the world
- Increasing availability of data to support policy formation, program design, monitoring, and evaluation
- Supporting data collection, processing, analysis, and dissemination and use

Examples of Technical Assistance Projects

- Zambia 2010 Census of Population and Housing
- India Census 2011
- Sudan Household Health Surveys: 2006 and 2010
- Guyana strengthening of national system of social statistics: 2006-2009

Training Programs

Data processing, demographic, and statistical training conducted in a workshop setting designed to convey concrete practical skills and build capacity

- Regional training – multi-country workshops addressing the training needs in a particular region
- Training programs hosted in Washington
- In-country workshops
- E-learning

Examples of Workshop Topics

- Census planning and management
- Questionnaire content and design
- Improving data quality
- Census and survey data processing (CSPro)
- Geographic Information Systems (GIS)
- Data dissemination
- Demographic analysis
- Population projections

Software and Methodological Tools Development

- Census and Survey Processing System (CSPro) -- a public-domain software package for entering, editing, tabulating, mapping and disseminating census and survey data
- Tool for Assessing Statistical Capacity (TASC) – a set of questions and weighted responses designed to measure capacity of a national statistical office to conduct population censuses and recurring household surveys

CSPro

- First released in 2000 – still growing
- Used in over 100 countries worldwide
- De facto standard for census and survey data processing in developing countries
- Used to process DHS, MICS, LSMS, other families of large-scale household sample surveys
- U.S. Census Bureau provides customer support and training
- Public domain – may be downloaded and freely distributed at no cost

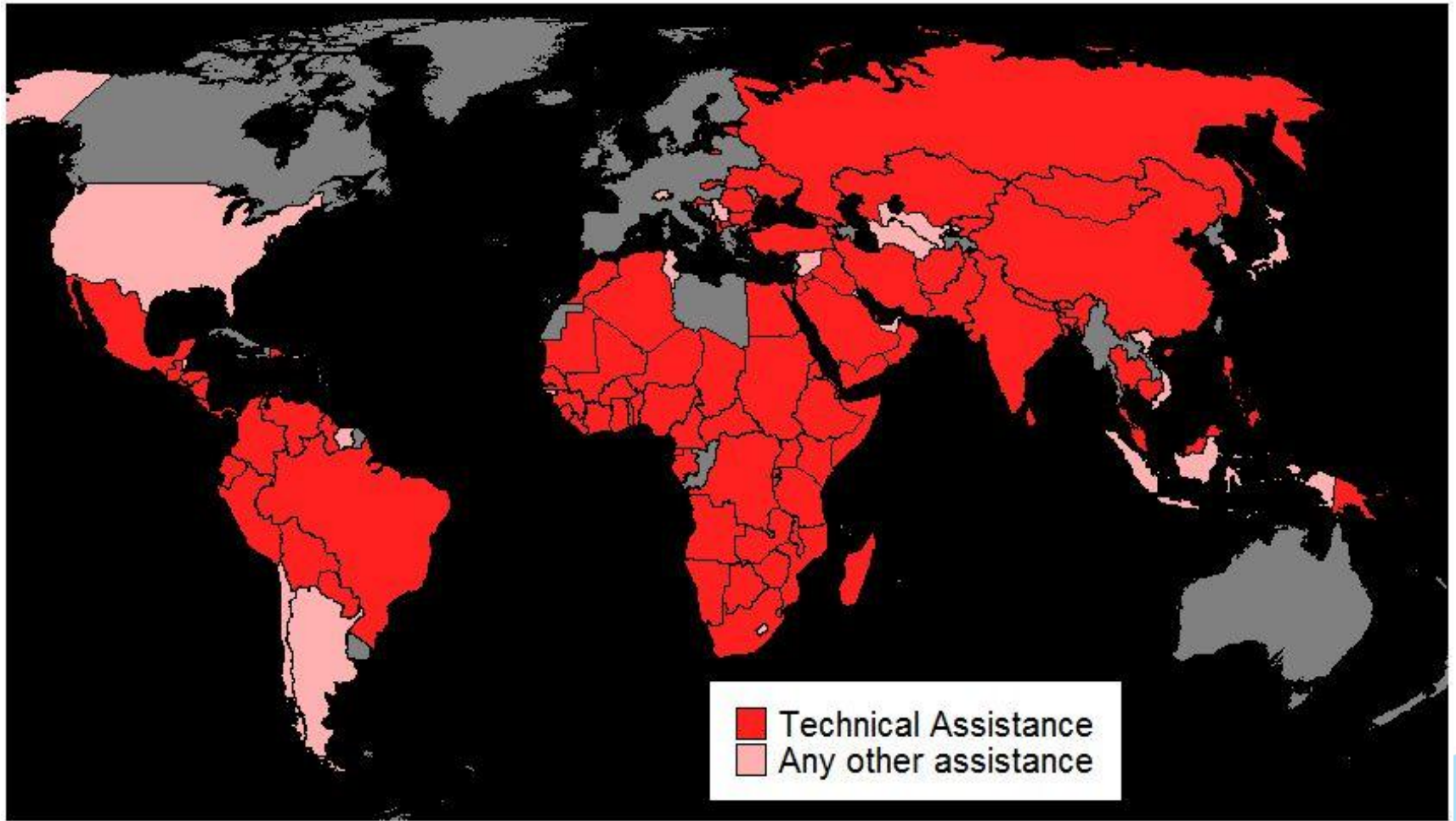
TASC

- Quantitative approach to measuring statistical capacity
- Over 150 questions organized into 9 topical areas
- Allows for cross-country comparisons
- Allows for “before and after” measurements
- Self-administered by staff in a workshop setting
- Piloted in Tanzania and Jordan in 2011 – well received
- Revisions after each pilot

How We Work

- Reimbursable basis with donors such as USAID, UN, World Bank
- Long history of international technical assistance dating back to 1946
- Established relationships with national statistical offices and key staff
- Current country projects in Angola, Bangladesh, Djibouti, India, Jordan, Kenya, Mozambique, Senegal, Southern Sudan, Tanzania, Zambia

Where We Have Worked



International Demographic and Economic Studies

Population Division
U.S. Census Bureau

Demographic and Economic Research Program

- Population estimates and demographic trends, 228 countries and areas
- Subnational projections, by age and sex, for selected countries
- Sample vital registration
- Aging in an international context
- HIV/AIDS – trends and population impacts
- Economic status and trends, pensions

Sources of Data

Our estimates and projections are based on:

- Census and survey data from each country
- Vital registration data
- Other administrative records
- Data from international organizations such as the United Nations High Commissioner for Refugees (UNHCR)
- Other sources of information regarding the country (e.g., wars, famines, epidemics)

Recent Analytical Products

- Assessment of the impact of Indonesia's tsunami
- Subnational projections for Nigeria, Iran, Iraq, India, China and cities around the world
- Evaluation of the 1997 Iraqi census
- Pakistan's diaspora
- The demography of malnutrition in North Korea
- The population impacts of Cyclone Nargis in Burma

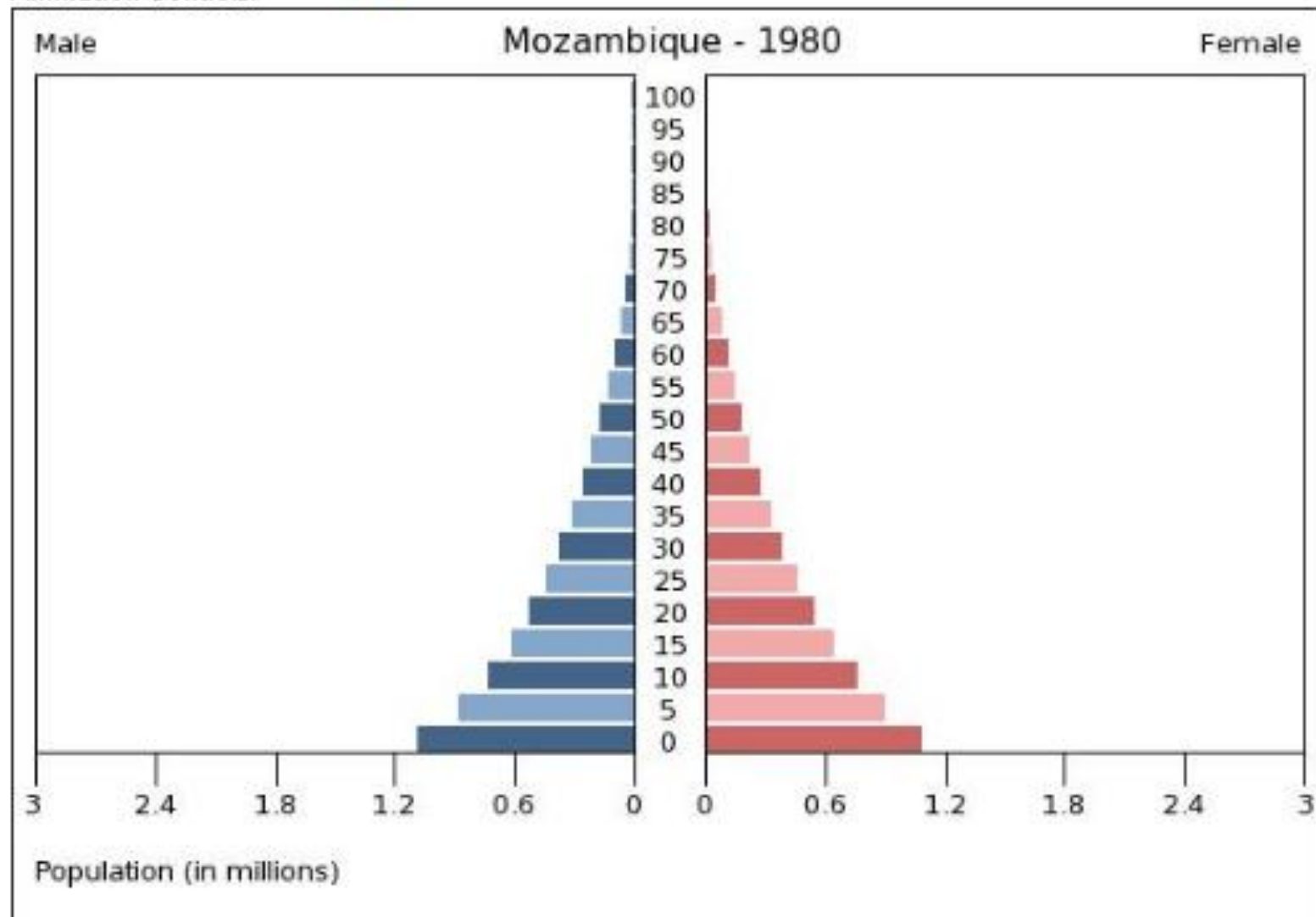
U.S. Census Bureau Tools

- International Data Base (IDB)
- Population Analysis Spreadsheets (PAS)
- Rural Urban Projections (RUP)
- HIV/AIDS Surveillance Data Base
- Sample Vital Registration with Verbal Autopsy (SAVVY)

What is the IDB?

- Demographic data from the estimates and projections developed by the Census Bureau
- Started in the early 1980s on a mainframe
- Moved to PCs in the early 1990s
- Started on the web in 1996
- One of the most popular sites on the Census Bureau website at:
www.census.gov/ipc/www/idb/

Animation Controls: ⏮ ⏪ ⏩ ⏭



Census Bureau's Work on HIV/AIDS

- HIV/AIDS Surveillance Data Base
- UNAIDS Collaborating Center
- Analyses of patterns, levels, and trends of HIV/AIDS infection in developing countries
- Incorporation of impact of HIV/AIDS into population projections for selected countries

What Is the HIV/AIDS Surveillance Data Base?

- Developed in 1987
- Cumulative compilation of data from developing countries
 - HIV prevalence
 - HIV incidence
- Updated yearly
- Most complete HIV seroprevalence database
- Supported by USAID
- Current coverage and size
 - Over 200 countries
 - Over 120,000 data records
 - Over 10,300 sources

HIV/AIDS SURVEILLANCE DATA BASE



COUNTRY AND RECORD SELECTION CRITERIA

[HOME](#)
[CUSTOM REPORTS](#)
[MAPS](#)
[HELP](#)

Prevalence, in Percent, of Human Immunodeficiency Virus (HIV) for: Mozambique

Number of records found = 224.

Data Quality = All

Geographic Area	Reference Date	Population SubGroup	Sex	Age	Prev. Rate	Sample Size	Virus Type	Specimen Type	Type of Test	Source ID	Comments
Alto Molocue district/ rural	2002	Pregnant women	F	ALL	6.67	300	HIV	B	UNK	M0762	Sentinel rural site: HR Alto Molocue. Located in Zambezia Province. Age range 15-49 yrs. Breakdown by age is provided.
Alto Molocue district/ rural	2001	Pregnant women	F	ALL	5	N/A	HIV	B	RAPID*2	G0349	Only the prevalence rate was given. Sentinel surveillance rural site: HR Alto Molocue. Located in Zambezia Province. Age range 15-49 yrs. Rapid test: Determine.
Alto Molocue district/ rural	2004-2005	Pregnant women	F	ALL	14	N/A	HIV	B/W	RAPID	M0872	Only the prevalence rate was given. Sentinel surveillance rural site: Alto Molocue Rural Hospital. Located in Zambezia Province. Age range 15-49 yrs. Oct. 04 - Jan. 05. Rapid test: Determine.
Alto Molocue district/ rural	2007	Pregnant women	F	ALL	7	N/A	HIV	BS	ELISA*2	M1201	Only the prevalence rate was given. Sentinel surveillance rural site: Alto Molocue Rural Hospital. Located in Zambezia Province. Age range 15-49 yrs. Breakdown by age is provided. Mar. - Sept. 07.
Ancuabe	2001	Pregnant women	F	ALL	26.7	N/A	HIV	B	RAPID*2	G0349	Only the prevalence rate was given. Sentinel surveillance site. Located in Cabo Delgado Province. Age range 15-49 yrs. Rapid test: Determine.
Angoche district/ rural	2004	Pregnant women	F	ALL	5.7	N/A	HIV	B/W	RAPID	M0872	Only the prevalence rate was given. Sentinel surveillance rural site: Angoche Rural Hospital. Located in Nampula Province. Age range 15-49 yrs. Sept. - Dec. 04. Rapid test: Determine.
Angoche district/ rural	2002	Pregnant women	F	ALL	7	300	HIV	B	UNK	M0762	Sentinel rural site: HR Angoche. Located in Nampula Province. Age range 15-49 yrs. Breakdown by age is provided.
Angoche district/ rural	2000	Pregnant women	F	ALL	4	300	HIV	B	RAPID	M0683	Sentinel surveillance rural site: HR Angoche. Located in Nampula Province. Attending antenatal clinic. Breakdown by age is provided.
Angoche district/ rural	2001	Pregnant women	F	ALL	5	N/A	HIV	B	RAPID	N0368	Only the prevalence rate was given. Sentinel surveillance rural site: HR Angoche. Located in Nampula Province. Attending antenatal clinic. Age range 15-49 yrs.
Angoche district/ rural	2007	Pregnant women	F	ALL	5	N/A	HIV	BS	ELISA*2	M1201	Only the prevalence rate was given. Sentinel surveillance rural site: Angoche Rural Hospital. Located in Nampula Province. Age range 15-49 yrs. Mar. - Sept. 07.
Angonia district/ rural	2007	Pregnant women	F	ALL	6	N/A	HIV	BS	ELISA*2	M1201	Only the prevalence rate was given. Sentinel surveillance rural site: Ulongue Rural Hospital. Located in Tete Province. Age range 15-49 yrs. Mar. - Sept. 07.
Angonia district/ rural	2002	Pregnant women	F	ALL	11	300	HIV	B	UNK	M0762	Sentinel rural site: HR Ulongue. Located in Tete Province. Age range 15-49 yrs. Breakdown by age is provided.
Angonia district/ rural	2004-2005	Pregnant women	F	ALL	13.5	N/A	HIV	B/W	RAPID	M0872	Only the prevalence rate was given. Sentinel surveillance rural site: Ulongue Rural Hospital. Located in Tete Province. Age range 15-49 yrs. Oct. 04 - Jan. 05. Rapid test: Determine.
Angonia district/ rural	2001	Pregnant women	F	ALL	11.3	N/A	HIV	B	RAPID*2	G0349	Only the prevalence rate was given. Sentinel surveillance rural site: HR Ulongue. Located in Tete Province. Age range 15-49 yrs. Rapid test: Determine.
Barue	1998	Pregnant women	F	ALL	17.5	40	HIV	B	RAPID	A0228	Sentinel surveillance site. Located in Manica Province. Attending antenatal clinic. Apr. 98.
Barue district/ rural	2004-2005	Pregnant women	F	ALL	19.3	N/A	HIV	B/W	RAPID	M0872	Only the prevalence rate was given. Sentinel surveillance rural site: Catandica Rural Hospital. Located in Manica Province. Age range 15-49 yrs. Oct. 04 - Jan. 05. Rapid test: Determine.

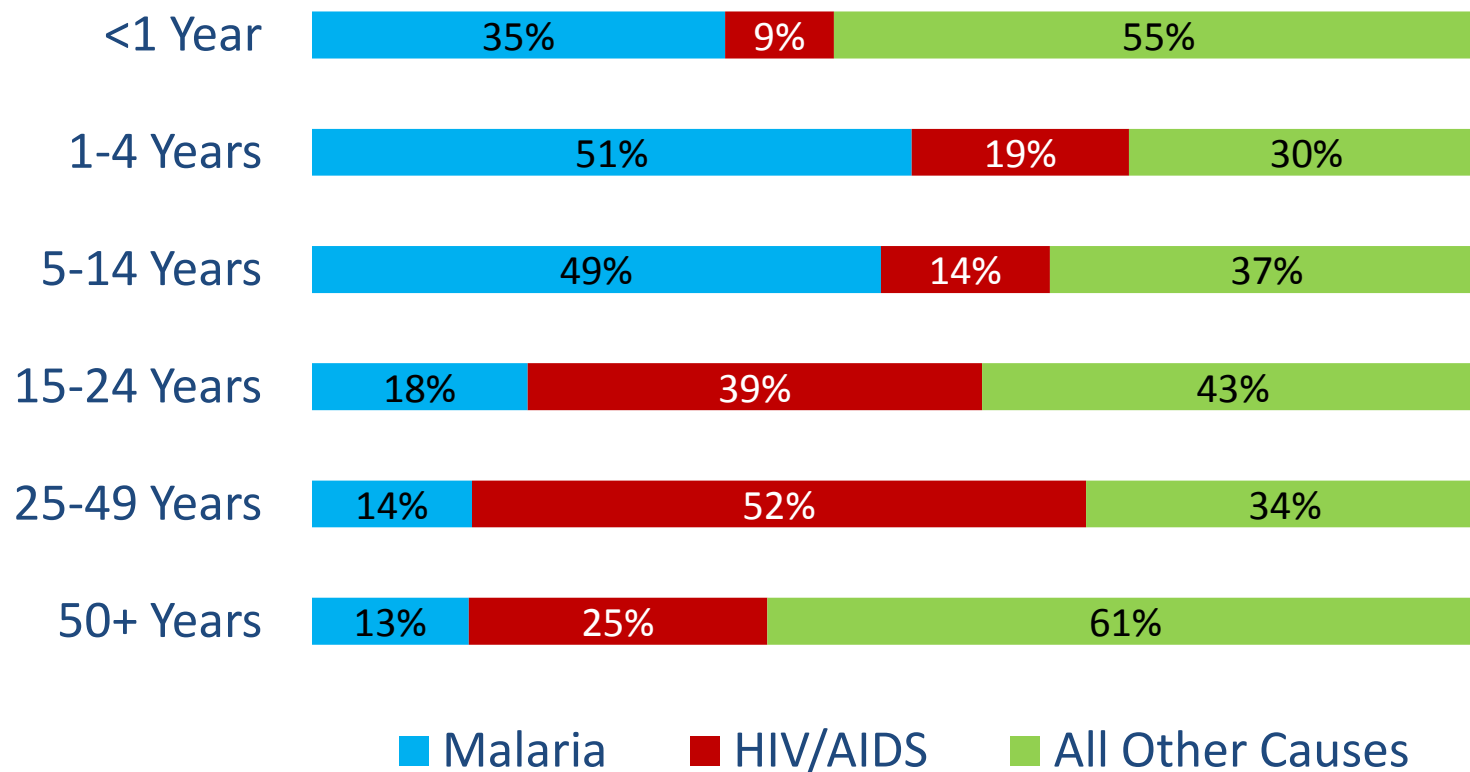
Sample Vital Registration with Verbal Autopsy (SAVVY) Concept

- Continuous monitoring of vital events in a national sample of households
- Mortality events followed up with verbal autopsy interview based on WHO international standards
- Coding of cause of death by physicians
- Results: Deaths by age, sex, and cause for subnational areas

Overview of Mozambique Post-Census Mortality Survey

- Designed to identify causes of death at the national and provincial levels by using SAVVY tools in conjunction with the 2007 census
- SAVVY Toolkit using PEPFAR core funds was developed by MEASURE Evaluation and the U.S. Census Bureau, available online
- All households in sample reporting a death in the past year were followed up with a verbal autopsy
- Verbal autopsies reviewed by trained doctors, with cause of death coded to ICD-10

Malaria, HIV/AIDS, and Other Causes of Death by Age Group, Mozambique: 2006-2007



Subnational Population Mapping

Population Division
U.S. Census Bureau

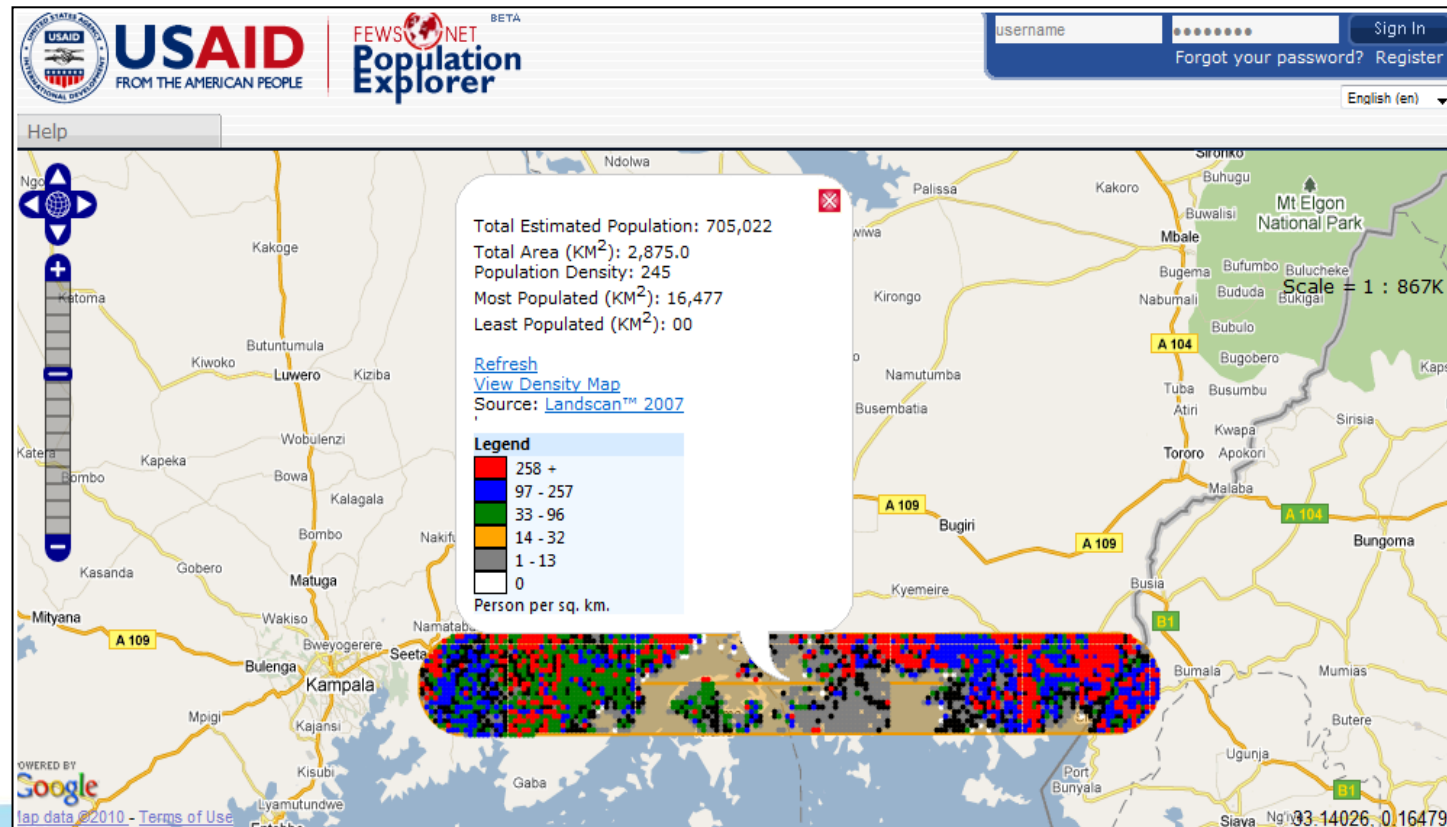
Subnational Population Data and Data Products

- Preparation of datasets for incorporation into other projects
 - Oak Ridge National Laboratory's LandScan
 - HIV Spatial Data Repository
- Special purpose projects
- Demobase gridded population estimates

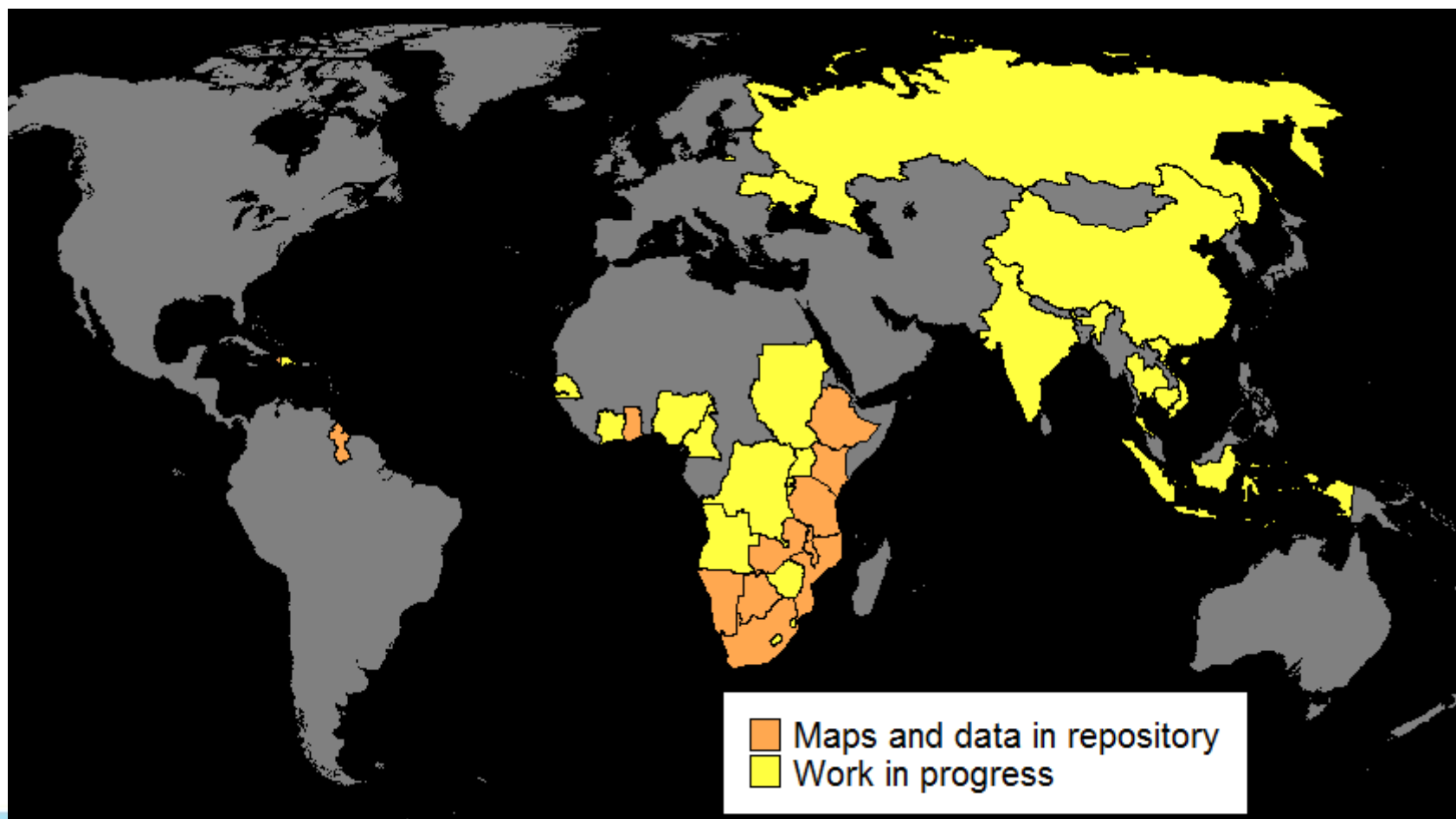
LandScan Global Population Dataset

Annual, subnational population estimates by age and sex, projected to the current date

266 countries,
territories,
and islands;
60,000+
subnational
areas



Subnational Population Estimates and Mapping for PEPFAR



Demobase Haiti Map Tool

To get started, watch these training videos: [Site Overview](#), [Explore Haiti](#), [Drawing Polygons](#), [Hurricane Tool](#)

Pop. Est. Tools

Draw Polygon

Draw Hurricane

Deactivate

Refresh Map

☐ Hide/Show Basemap

Caution: Clicking the basemap on/off clears the map

Geo Explorer

Need Help?


Legend

Caveats

Map

Satellite

Hybrid



50 mi
100 km

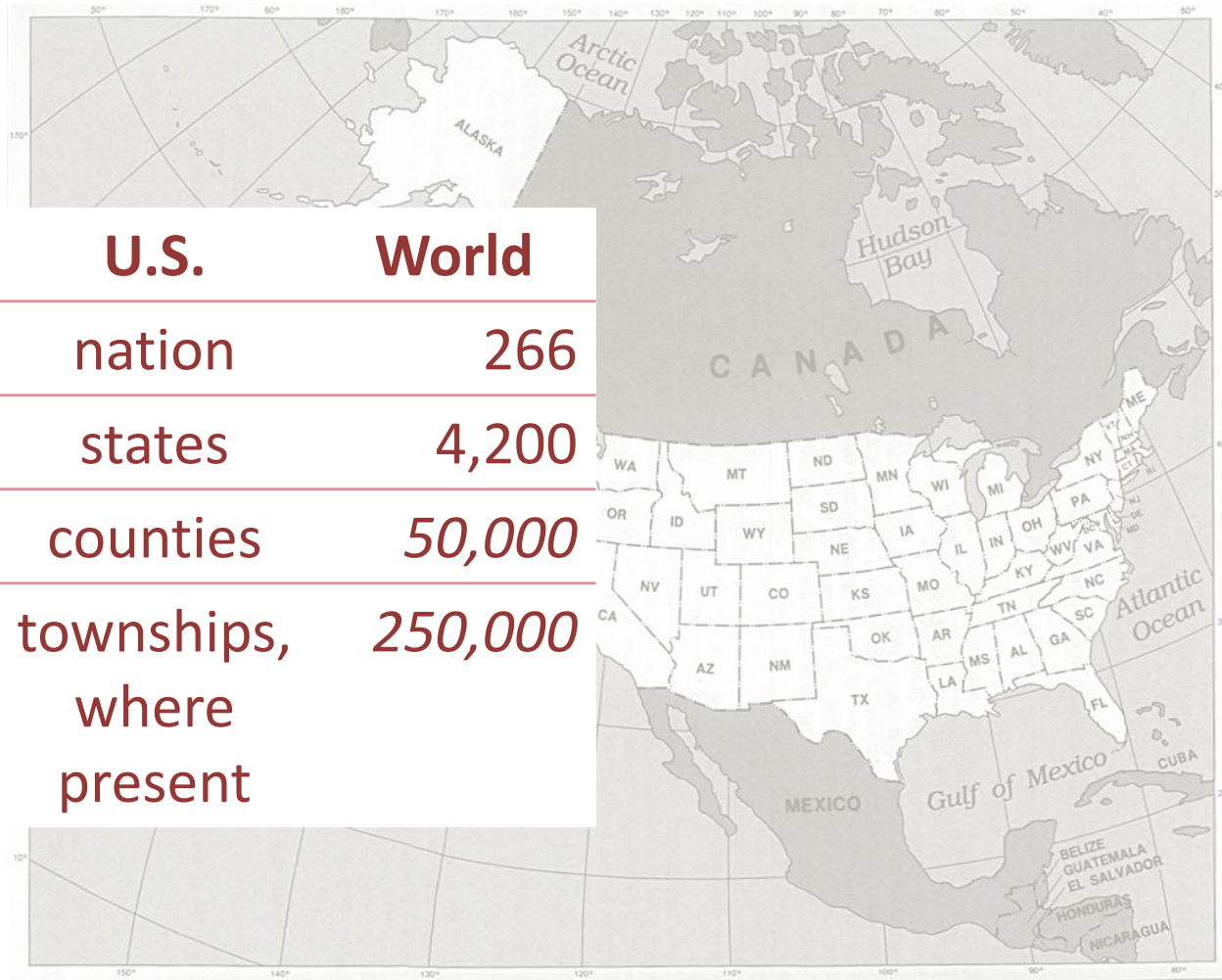
Imagery ©2009 TerraMetrics - [Terms of Use](#)

Latitude: 18.05186707 Longitude: -75.20141602

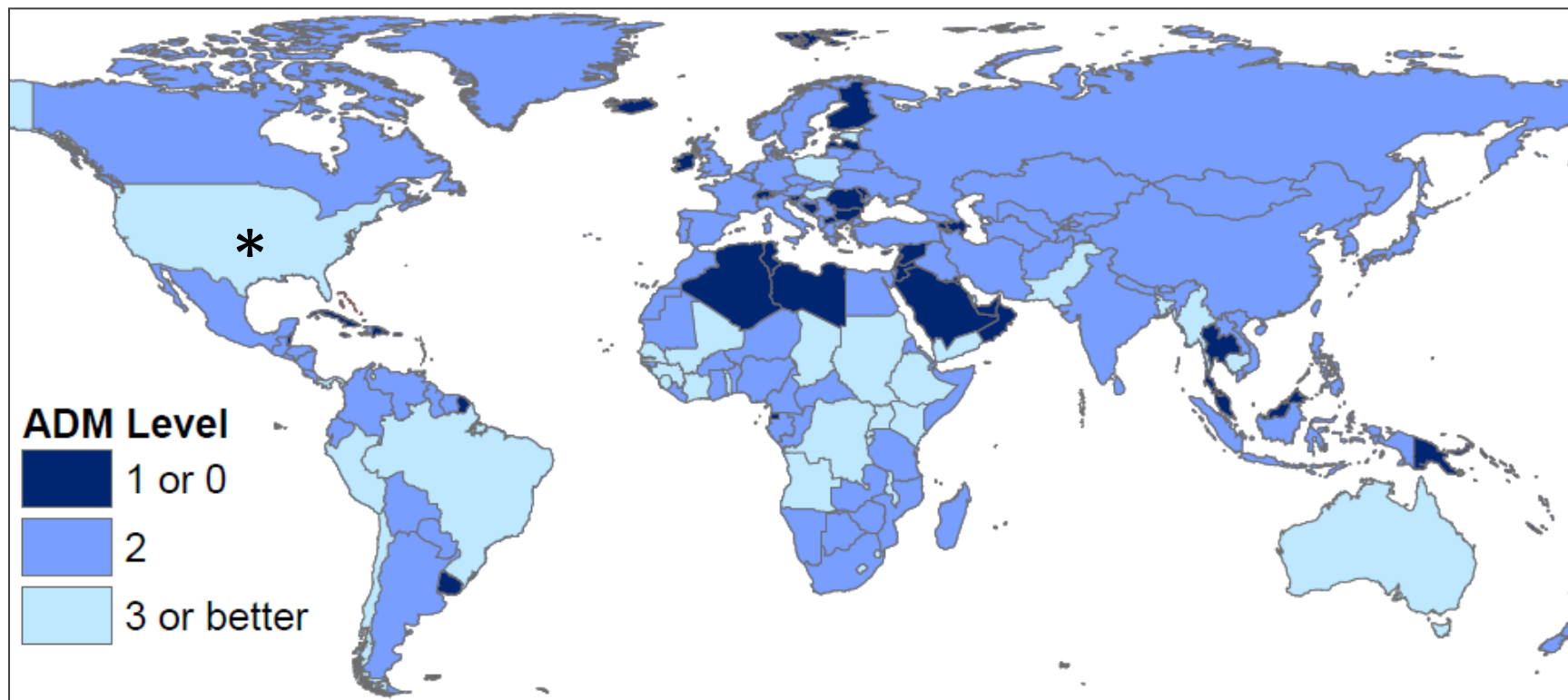
United States[™]
Census
Bureau

World Administrative Unit Inventory

	U.S.	World
ADM0	nation	266
ADM1	states	4,200
ADM2	counties	50,000
ADM3	townships, where present	250,000



Current Census Bureau Boundary Holdings



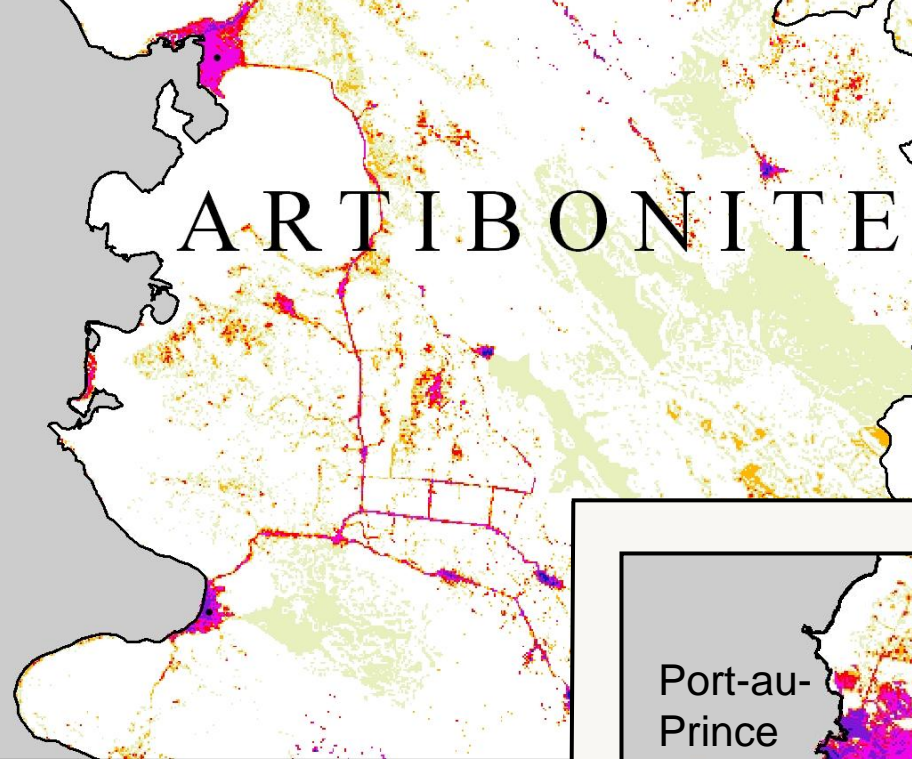
* ADM3s do not exist in all states.

Building Demobase

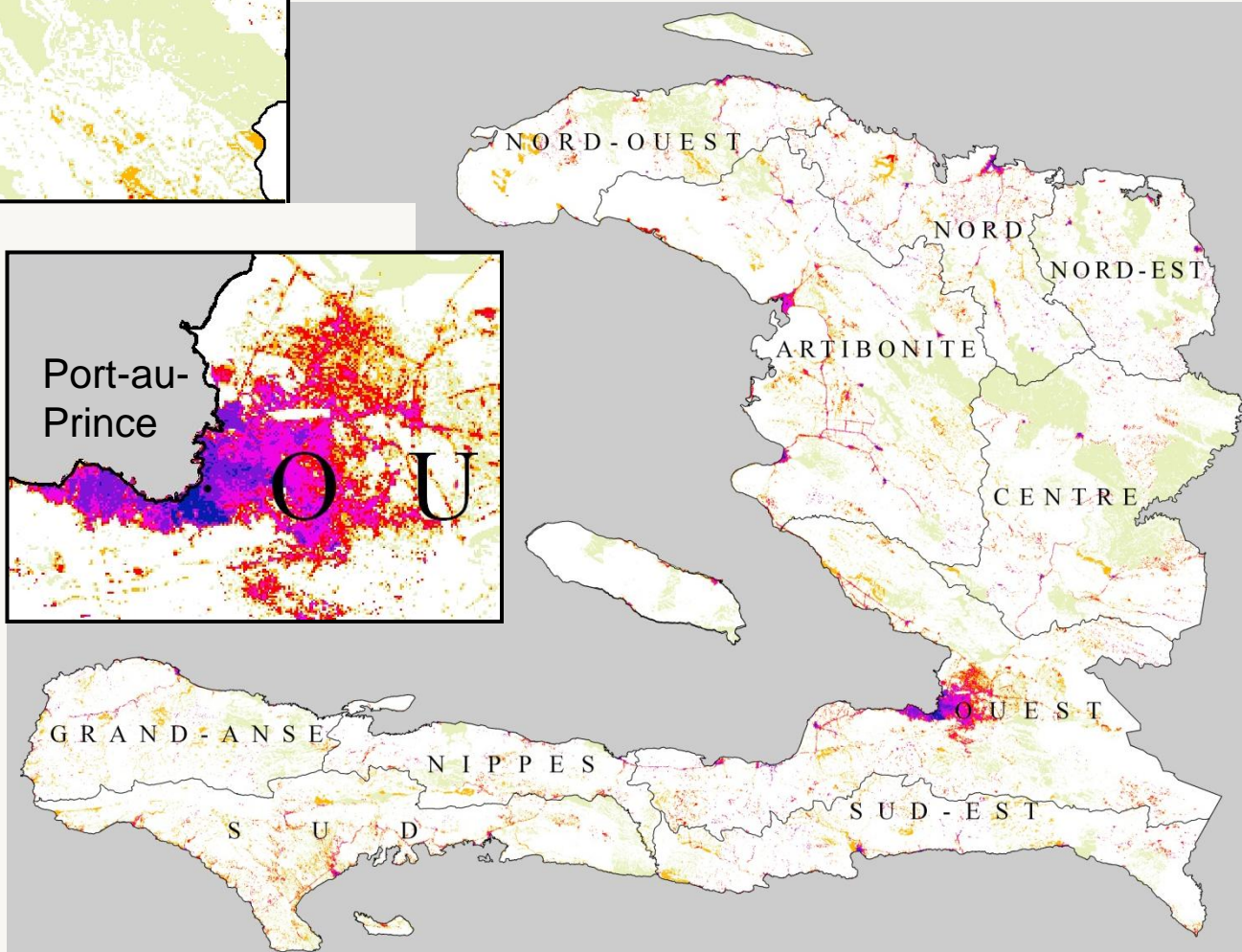
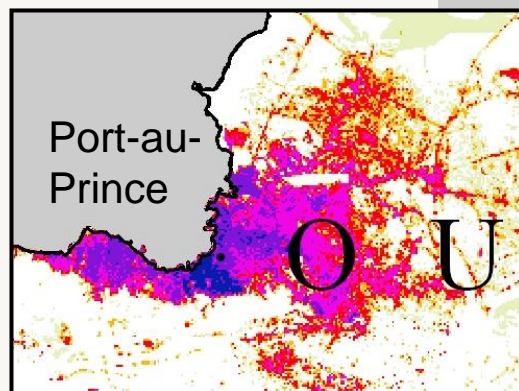
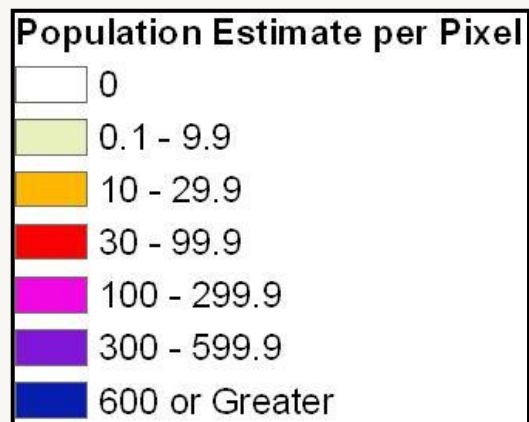
- High-resolution (100m) gridded population estimates, along with related demographic data
- Humanitarian assistance focus but many other uses, including national security and commercial
- Collaboration with the State Department and others
- Key challenge: preparing the data and making them easily available

Building Demobase: Components

- Demographic data, with age and sex and other variables as available and needed
- Boundary files
- Satellite imagery
 - High and medium resolution
 - Mapping built-up surfaces
 - Distributing population within smallest ADMs

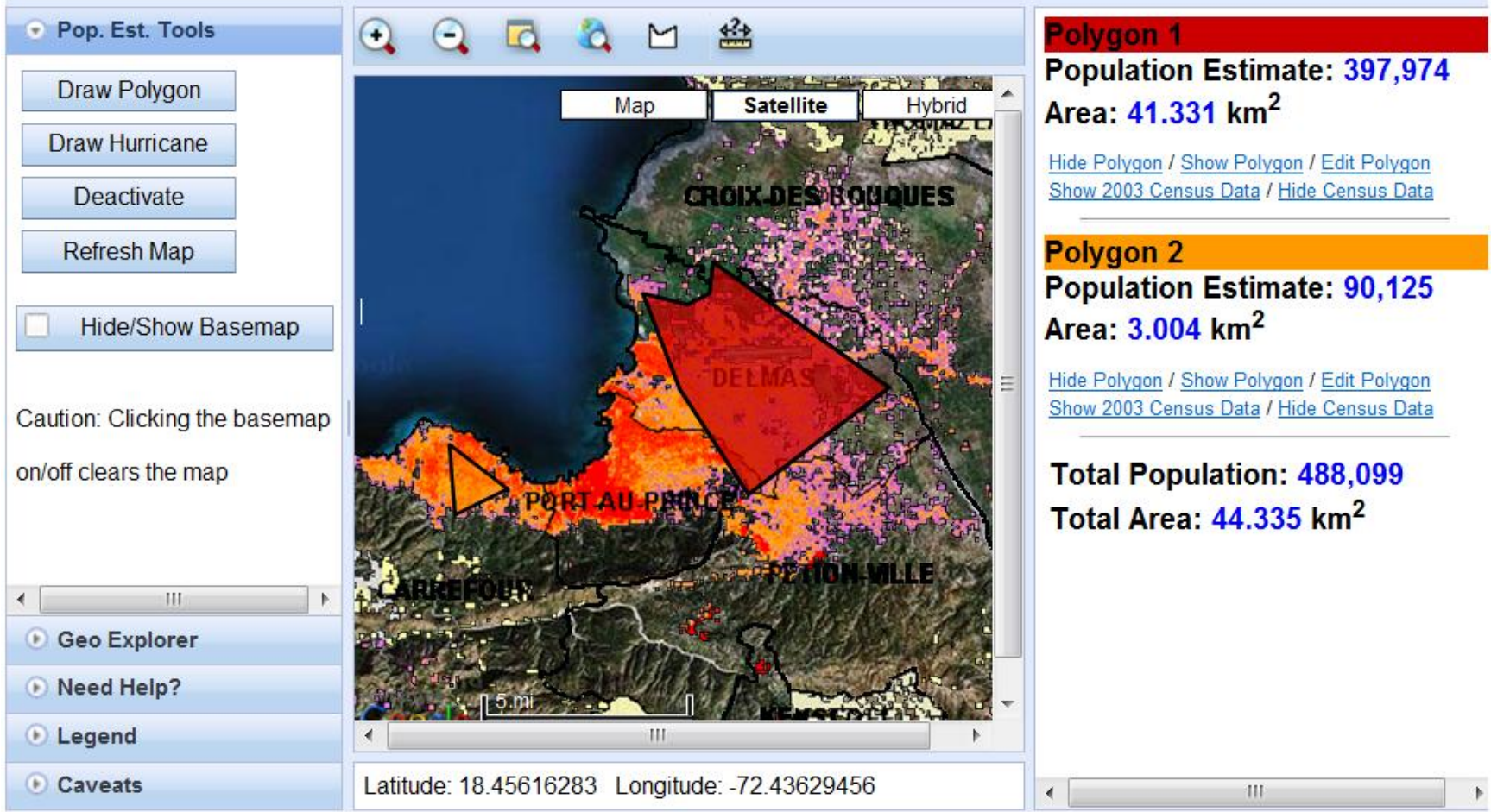


DEMOBASE Haiti 100 meter gridded population

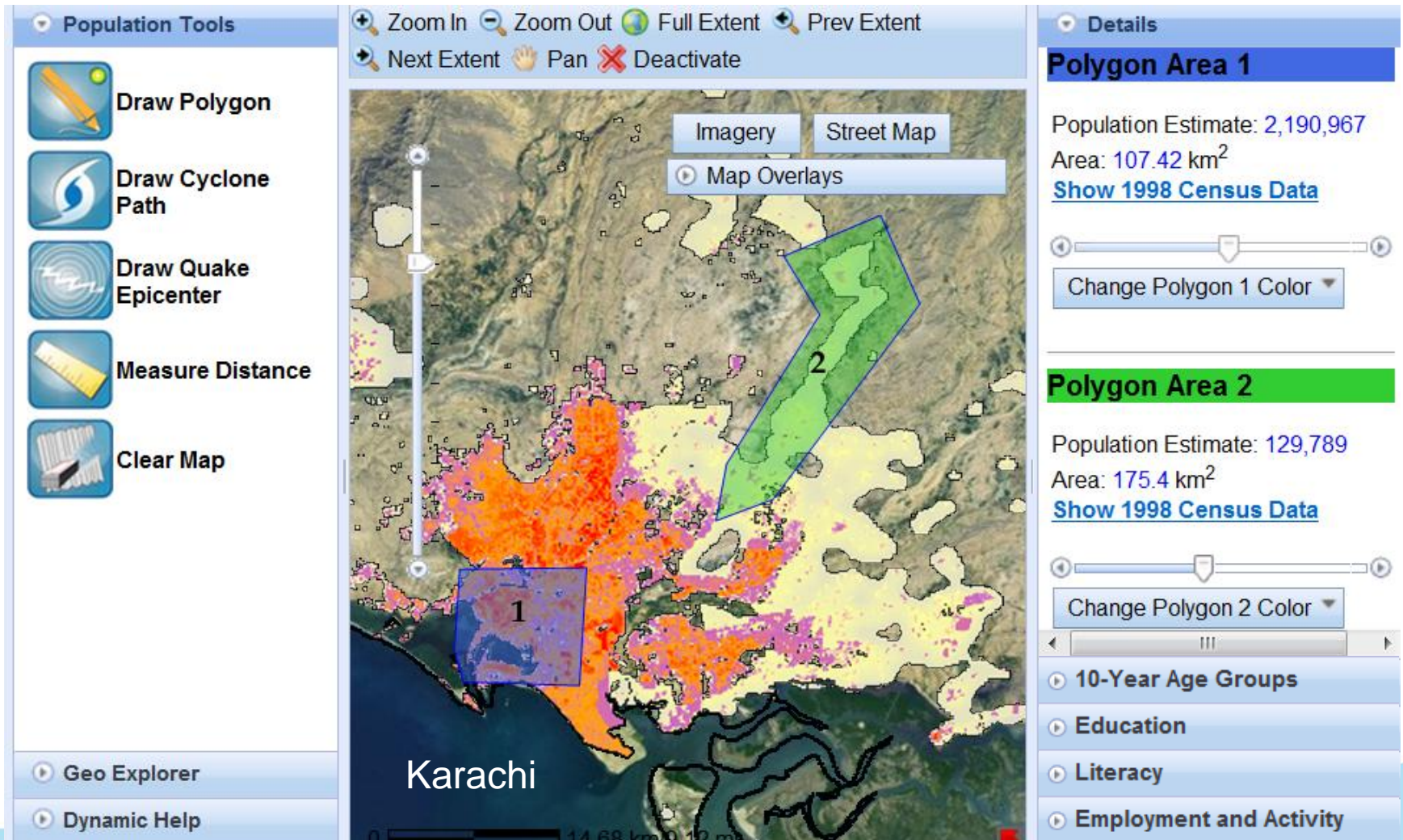


Demobase Haiti

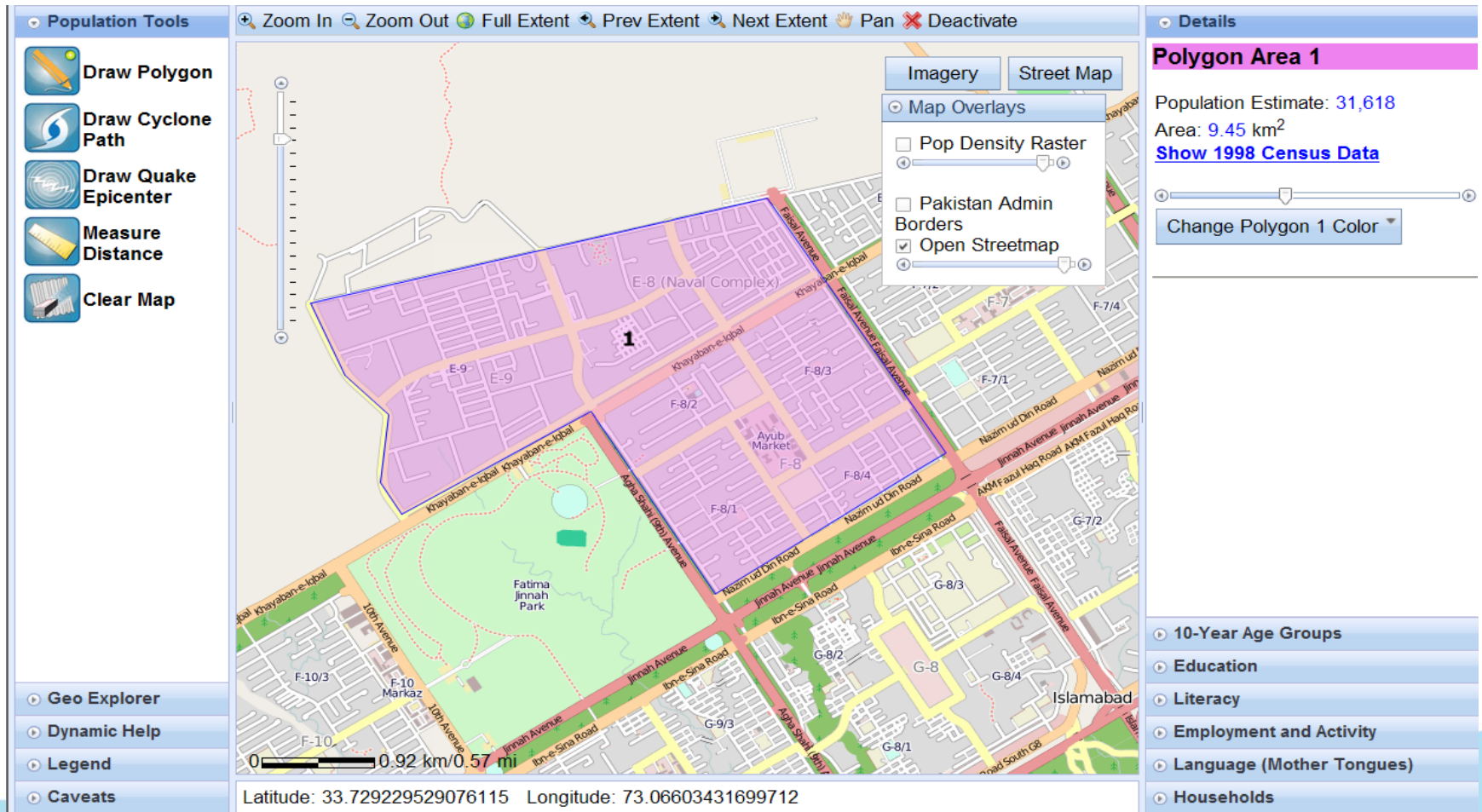
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Demobase Pakistan

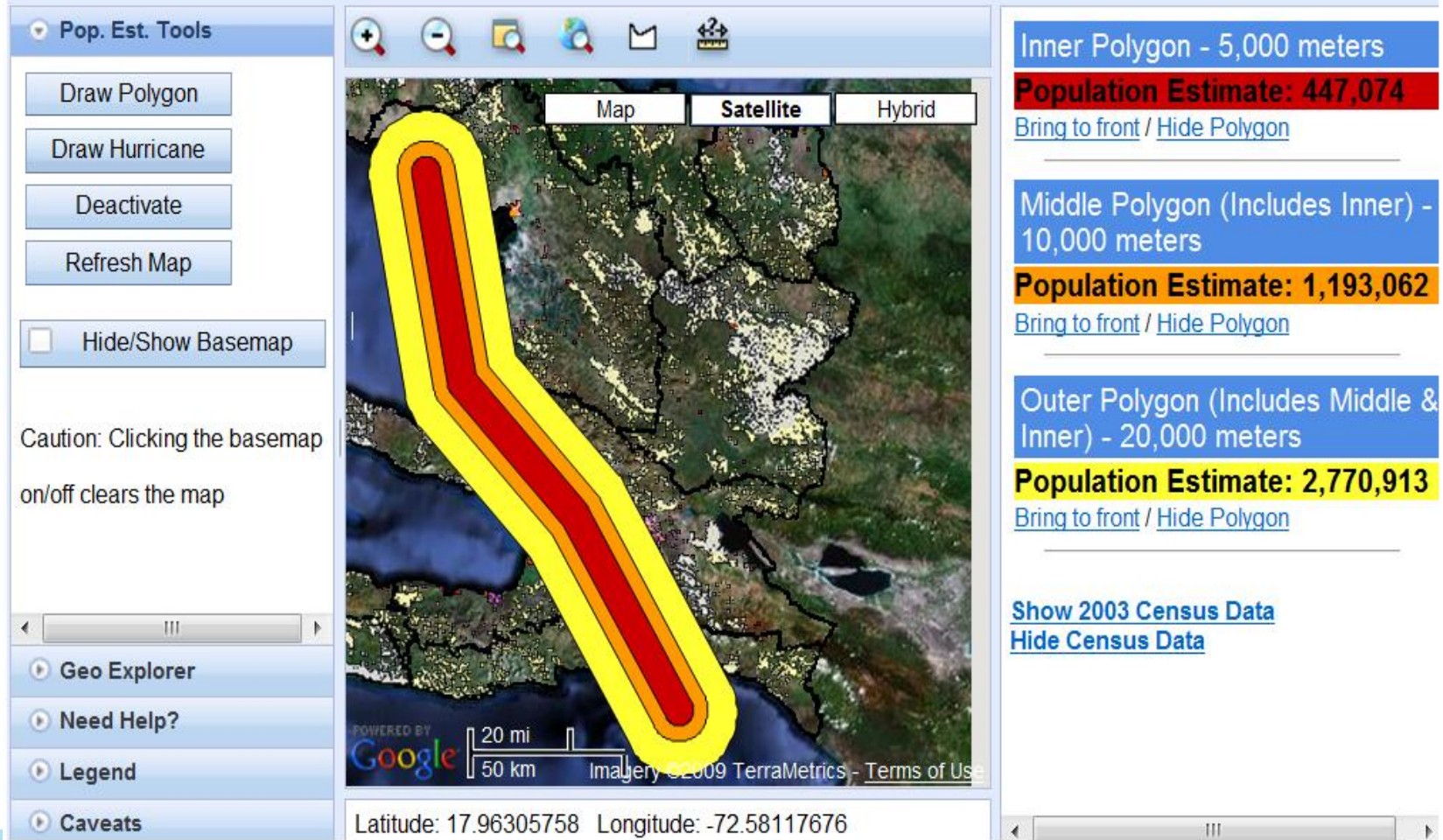


Custom Polygon Tool Following Street Lines



Haiti: Hurricane Tool

To get started, watch these training videos: [Site Overview](#), [Explore Haiti](#), [Drawing Polygons](#), [Hurricane Tool](#)



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